

Application No. 10/014,665
Atty. Docket No. 033218-018

24. The process of claim 22 wherein the reaction is performed in a temperature range from about 55° C. to about 85° C.

25. The process of claim 22 wherein the reaction is performed from about 6 hours to about 48 hours.

26. The process of claim 22 wherein at least two by-products are formed.

27. The process of claim 22 wherein 17 β -hydroxy-17 α -methyl-5 α -androst-1-en-3-one is formed at a yield of about 65% to about 75%.

28. The process of claim 22 wherein:
mestanolone and IBX are present in a molar ratio from about 1:1 to about 1:2;
the reaction is performed in a temperature range from about 55° C. to about 85° C. for about 6 hours to about 48 hours; and
17 β -hydroxy-17 α -methyl-5 α -androst-1-en-3-one is formed at a yield of about 65% to about 75%.

29. The process of claim 28 wherein at least two by-products are formed.

30. The process of claim 22 wherein:
mestanolone and IBX are present in a molar ratio of about 1:1.5;
the reaction is performed in a temperature range from about 60° C. to about 75° C. for about 6 hours to about 48 hours;
17 β -hydroxy-17 α -methyl-5 α -androst-1-en-3-one is formed at a yield of about 65% to about 75%; and
at least two by-products are formed.

31. The process of claim 30 wherein the reaction is performed in a temperature range from about 65° C. to about 70° C.

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32. The process of claim 31 wherein the reaction is performed in a mixture of toluene and dimethyl sulfoxide.